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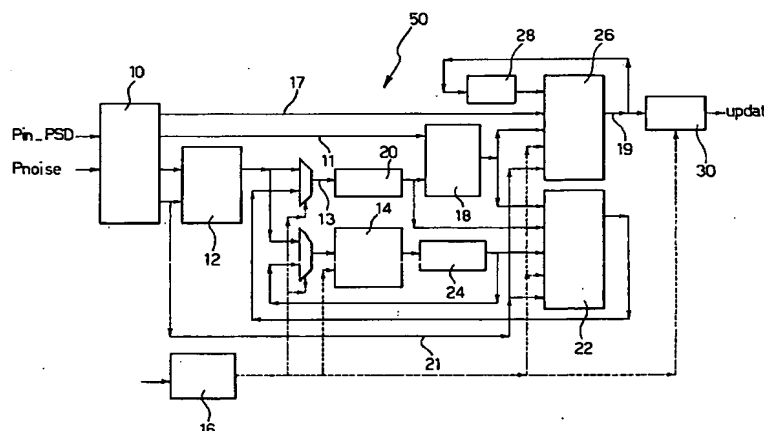
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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent*

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- (54) Title: METHOD AND CIRCUIT FOR NOISE ESTIMATION, RELATED FILTER, TERMINAL AND COMMUNICATION NETWORK USING SAME, AND COMPUTER PROGRAM PRODUCT THEREFOR**



- (57) Abstract:** A filter such as a Wiener filter for noise reduction in a signal, such as a speech signal, affected by background noise includes a circuit (50) for determining values of an update function relating new value of estimated noise power ($P_{\text{noise-New}}$) to a previous value of estimated noise power (P_{noise}), the update function being a function of said previous estimated noise power (P_{noise}) and a mean input power spectral density ($P_{\text{IN-PSD}}$). The circuit (50) includes a look-up table (30) having values for the update function stored therein with the previous value of estimated noise power (P_{noise}) and the mean input power spectral density ($P_{\text{in-PSD}}$) as a first and a second search entry, respectively. These search entries are entered via an input module (10) and exploited by search circuitry (12 to 28) associated with the look-up table (30) for selectively searching values for the update function in the look-up table (30). The search is preferably carried out on the basis of an index (26) computed starting from said first and second search entries.



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